5. (a) $MRTS = \frac{K}{L}$ $\sigma = \frac{K/L}{K/L} = 1$ (b) $MRTS = 2$ $\frac{K/L}{2} = \infty$

8. (1) ✓
   (2) $MRTS = \frac{MRK}{MRL} = \frac{2}{3}$
   (3) $\frac{K/L}{3/2} = \infty$

9. (a) $\lambda q < (\lambda L^\alpha + \lambda K^\alpha)^\beta \Rightarrow$ 遞增

(b) $\lambda \ln q = \lambda 5 + 0.5 \lambda \ln L + 0.2 \lambda \ln k \Rightarrow$ 固定

(c) $\lambda q \{Min\{\lambda aL, \lambda bk\}\}^\alpha$
   $\Rightarrow \lambda^\alpha \{Min\, aL\, bK\}^\alpha$
   $\Rightarrow$ 遞減